

FIG. 1

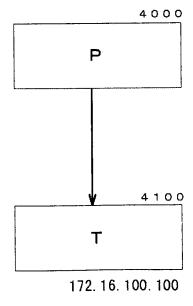


FIG. 2

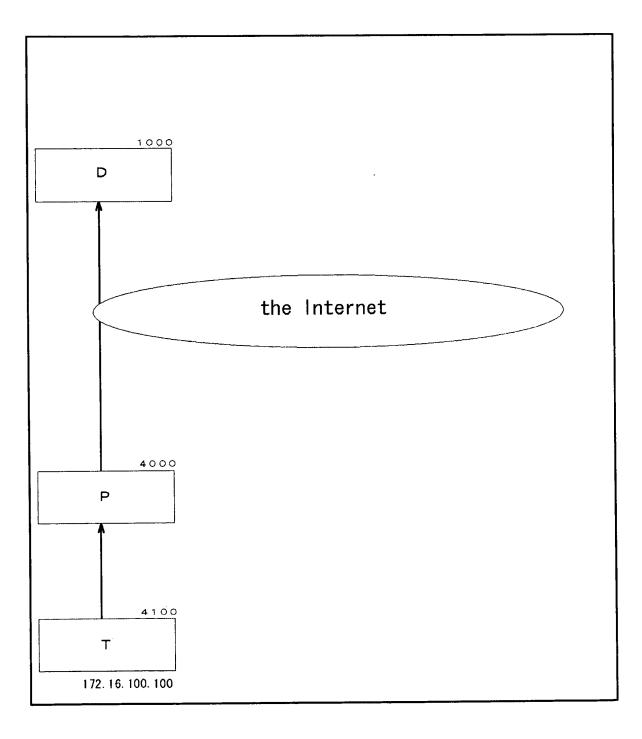


FIG. 3

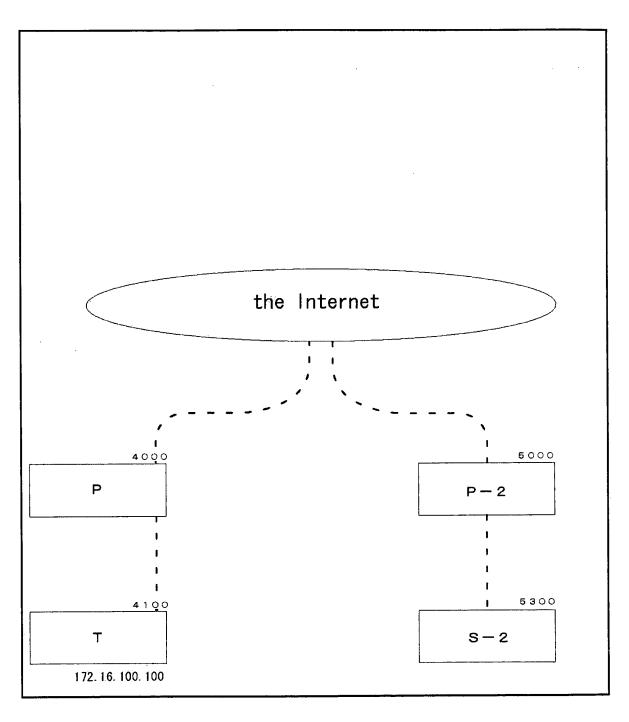
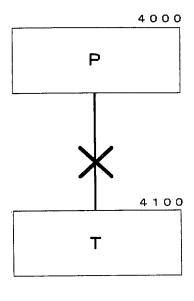


FIG. 4



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FIG. 5

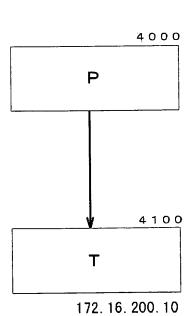


FIG. 7

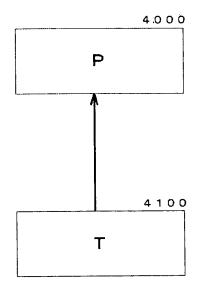


FIG. 6

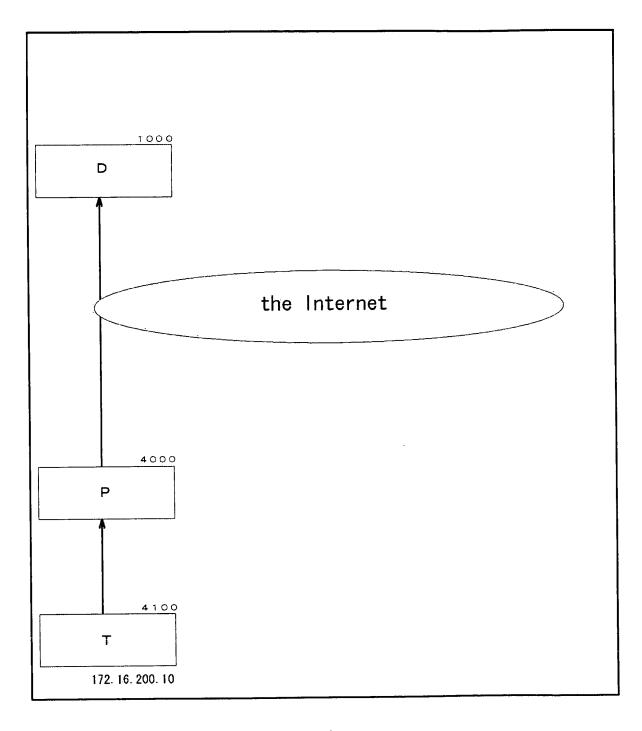


FIG. 8

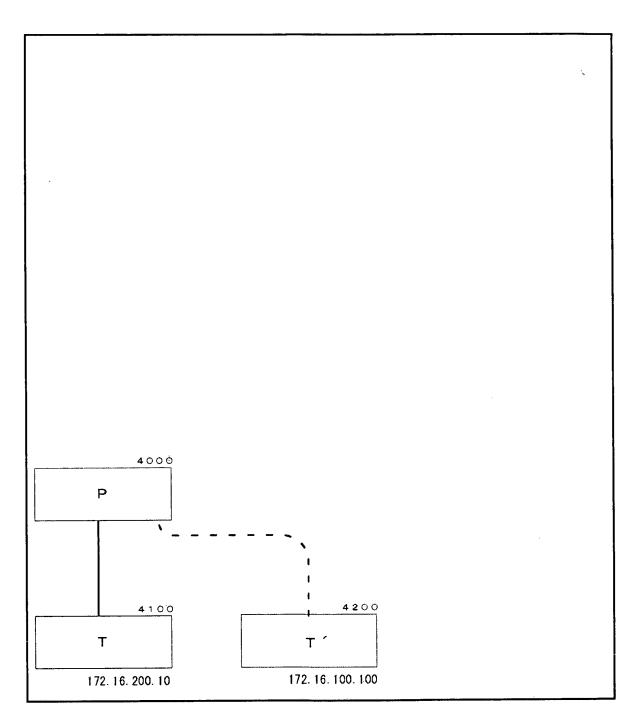


FIG. 9

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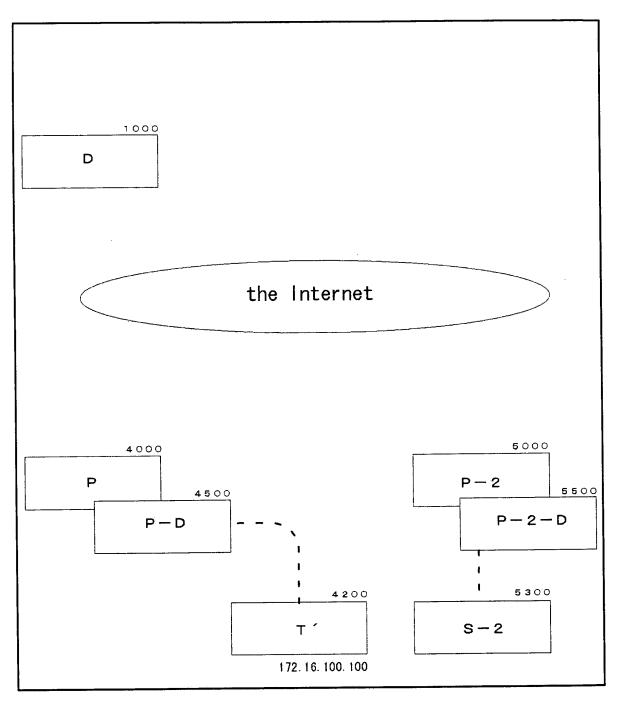


FIG. 10

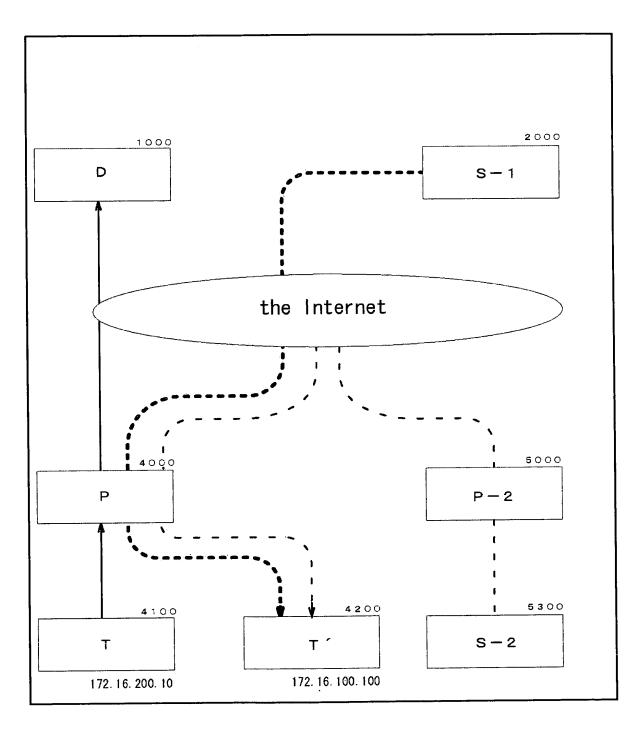


FIG. 11

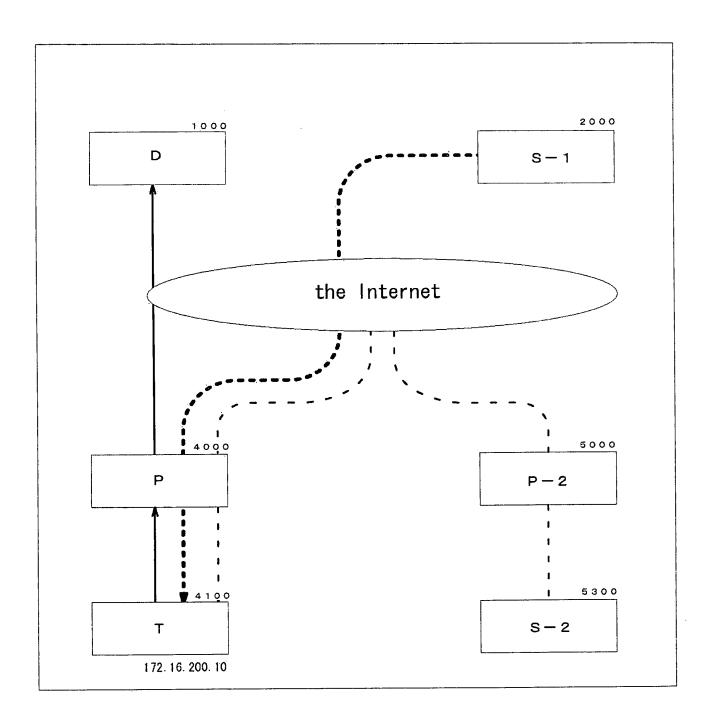


FIG. 12

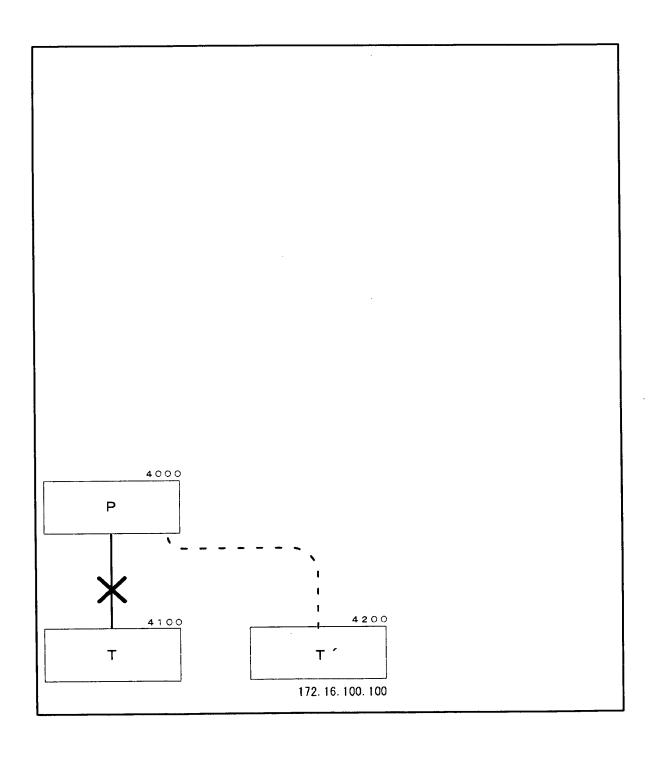


FIG. 13

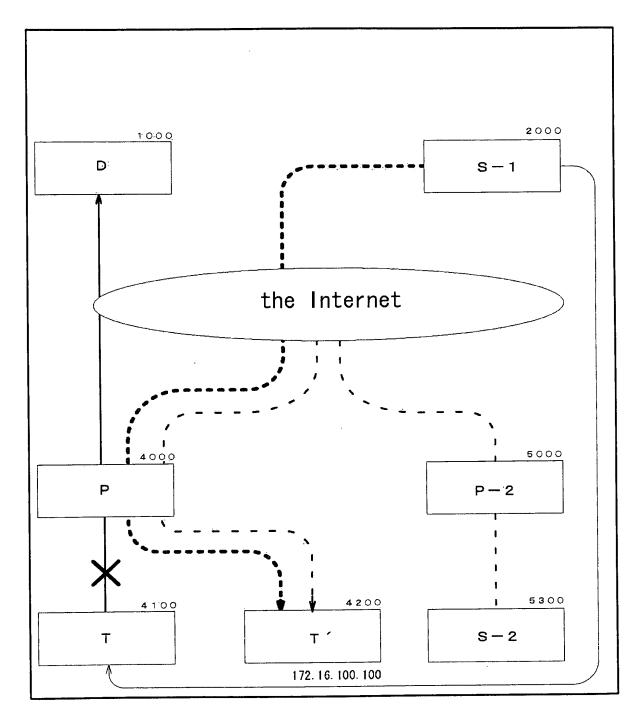


FIG. 14

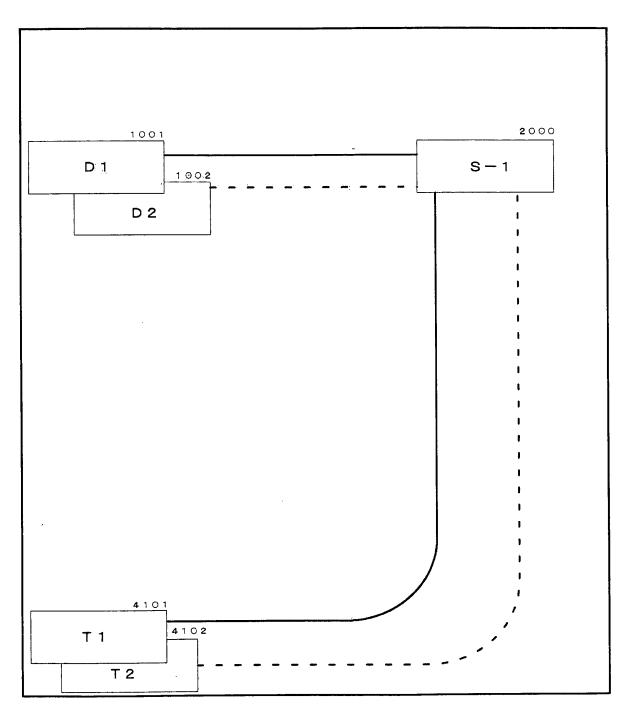
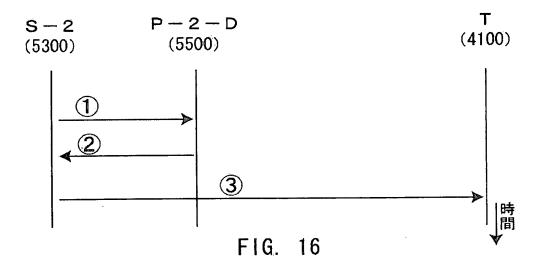
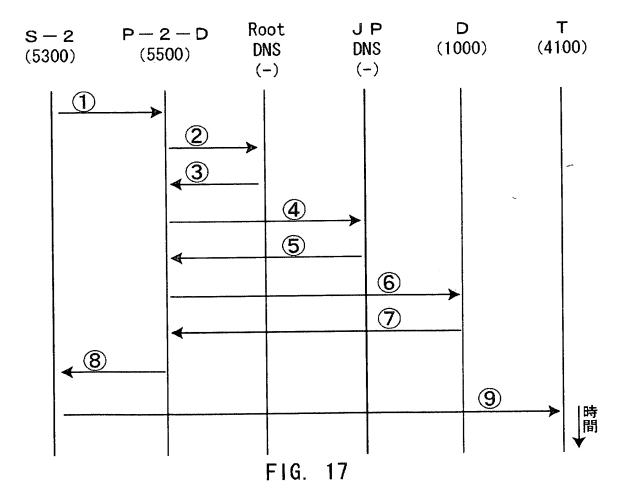


FIG. 15





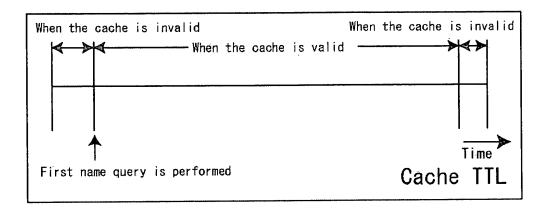


FIG. 18

```
date >> $LOG
echo -n "result od DIG :" >> $LOG
dig @209.69.32.137 bsdguru.dyndns.org | grep bsdguru.dyndns.org | --->
  grep "IN A" | cut -f4 >> $LOG
ping -c 2 bsdguru.dyndns.org >> $LOG
sleep 1
```

FIG. 19

```
1
Thu Sep 12 23:59:36 JST 2002
result od DIG :210, 159, 30, 63 a
PING bsdguru. dyndns. org (210. 159. 30. 63): 56 data bytes
64 bytes from 210.159.30.63: icmp_seq=0 ttl=246 time=70.996 ms
64 bytes from 210.159.30.63: icmp_seq=1 ttl=246 time=83.131 ms
--- bsdguru.dyndns.org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 70.996/77.064/83.131/6.067 ms
2
Thu Sep 12 23:59:39 JST 2002
result od DIG : 218, 218, 1, 196 c
PING bsdguru. dyndns. org (210. 159. 30. 63): 56 data bytes
64 bytes from 210.159.30.63: icmp_seq=0 ttl=246 time=84.041 ms
64 bytes from 210.159.30.63: icmp_seq=1 ttl=246 time=98.320 ms
--- bsdguru.dyndns.org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 84.041/91.180/98.320/7.139 ms
Thu Sep 12 23:59:41 JST 2002
result od DIG :218, 218, 1, 196
PING bsdguru. dyndns. org (210. 159. 30. 63): 56 data bytes
64 bytes from 210.159.30.63: icmp_seq=0 ttl=246 time=91.660 ms
64 bytes from 210.159.30.63: icmp_seq=1 ttl=246 time=87.170 ms
--- bsdguru. dyndns. org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 87.170/89.415/91.660/2.245 ms
```

```
4
Thu Sep 12 23:59:43 JST 2002
result od DIG :218, 218, 1, 196
PING bsdguru. dyndns. org (210. 159. 30. 63): 56 data bytes
64 bytes from 210.159.30.63: icmp_seq=0 ttl=246 time=87.492 ms
64 bytes from 210.159.30.63: icmp_seq=1 ttl=246 time=70.174 ms
--- bsdguru.dyndns.org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 70.174/78.833/87.492/8.659 ms
15
Fri Sep 13 00:00:37 JST 2002
result od DIG :218.218.1.196
PING bsdguru. dyndns. org (210. 159. 30. 63): 56 data bytes
64 bytes from 210.159.30.63: icmp_seq=0 ttl=246 time=98.655 ms
64 bytes from 210.159.30.63: icmp_seq=1 ttl=246 time=81.907 ms
--- bsdguru dyndns org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 81.907/90.281/98.655/8.374 ms
16
Fri Sep 13 00:00:39 JST 2002
result od DIG :218.218.1.196 e
PING bsdguru. dyndns. org (218. 218. 1. 196): 56 data bytes
64 bytes from 218.218.1.196: icmp_seq=0 ttl=52 time=111.375 ms
64 bytes from 218.218.1.196: icmp_seq=1 ttl=52 time=117.394 ms
--- bsdguru.dyndns.org ping statistics ---
2 packets transmitted, 2 packets received, 0% packet loss
round-trip min/avg/max/stddev = 111.375/114.385/117.394/3.010 ms
```

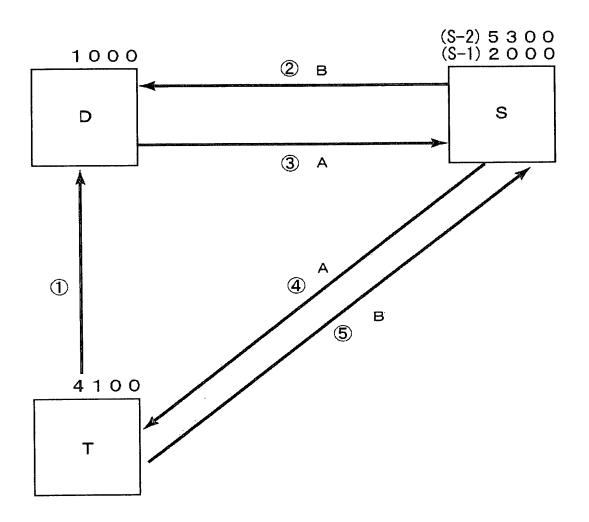


FIG. 22

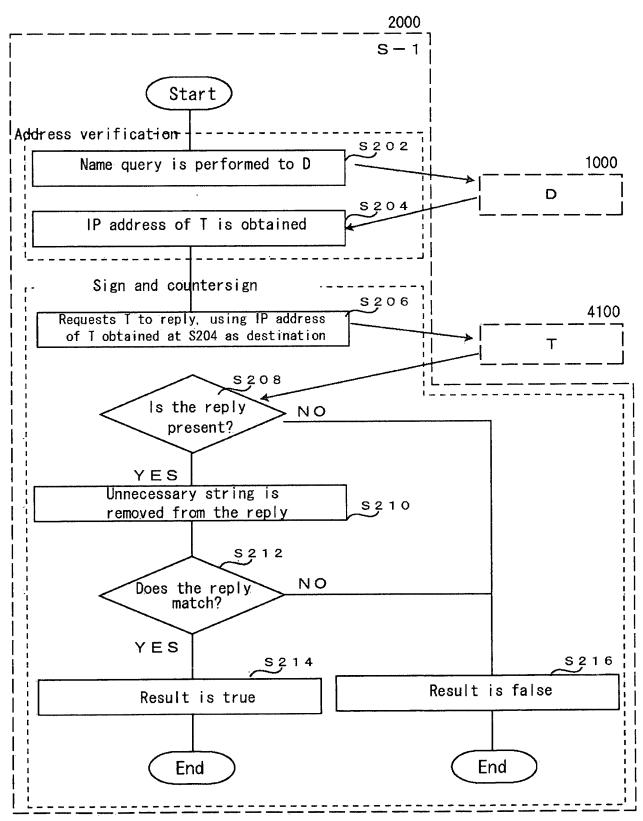


FIG. 23

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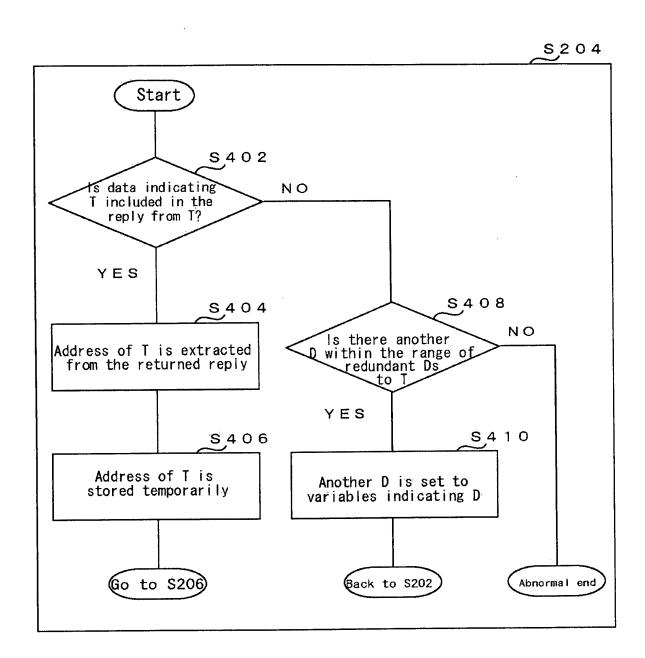


FIG. 24

```
% dig @ns1. dyndns. org bsdguru. dyndns. org
; <<>> DiG 8.3 <<>> @ns1. dyndns. org bsdguru. dyndns. org
; (1 server found)
;; res options: init recurs defnam dnsrch
:: got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6
;; flags: gr aa rd; QUERY: 1, ANSWER: 1, AUTHORITY: 5, ADDITIONAL: 5
:: QUERY SECTION:
        bsdguru.dyndns.org, type = A, class = IN
;; ANSWER SECTION:
                          1M IN A
                                          218, 46, 105, 100
bsdguru. dyndns. org.
:: AUTHORITY SECTION:
                          1D IN NS
                                           ns4. dyndns. org.
dyndns.org.
                                           ns5. dyndns. org.
                         1D IN NS
dyndns. org.
                          1D IN NS
                                           ns1. dyndns. org.
dyndns.org.
                          1D IN NS
                                           ns2. dyndns. org.
dyndns. org.
                          1D IN NS
                                           ns3. dyndns. org.
dyndns. org.
:: ADDITIONAL SECTION:
                                           66. 37. 215. 43
                         1D IN A
ns1. dyndns. org.
                                           209. 69. 32. 137
                         1D IN A
ns2. dyndns. org.
                                           64, 71, 191, 26
                          1D. IN A
ns3. dyndns. org.
                                           212, 100, 224, 171
                         1D IN A
ns4. dyndns. org.
                                           66. 37. 215. 44
                          1D IN A
ns5. dyndns. org.
;; Total query time: 231 msec
;; FROM: open. names4commerce. net to SERVER: ns1. dyndns. org 66. 37. 215. 43
;; WHEN: Fri Sep 13 23:24:31 2002
;; MSG SIZE sent: 36 rcvd: 222
```

```
% dig @hhh. dyndns. org bsdguru. dyndns. org
; <<>> DiG 8.3 <<>> @hhh. dyndns. org bsdguru. dyndns. org
; (1 server found)
;; res options: init recurs defnam dnsrch
;; res_nsend to server hhh. dyndns. org 66. 183. 188. 16: Operation timed out
% echo $status
9
```

FIG. 26

```
% dig @ns1. dyndns. org bsd2guru. dyndns. org
; <<>> DiG 8.3 <<>> @ns1. dyndns. org bsd2guru. dyndns. org
; (1 server found)
;; res options: init recurs defnam dnsrch
:: got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 6
;; flags: qr aa rd; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 0
;; QUERY SECTION:
        bsd2guru.dyndns.org, type = A, class = IN
;; AUTHORITY SECTION:
                                          ns1. dyndns. org. hostmaster. dyndns. org. (
                        10M IN SOA
dyndns. or g.
                                                          : serial
                                          2057409667
                                                          : refresh
                                          10M
                                          5M
                                                          : retry
                                          1W
                                                          ; expiry
                                          10M )
                                                          : minimum
;; Total query time: 215 msec
;; FROM: open. names4commerce. net to SERVER: ns1. dyndns. org 66. 37. 215. 43
;; WHEN: Thu Sep 26 22:56:13 2002
;; MSG SIZE sent: 37 rcvd: 88
% echo $status
```

```
% snmpget 218.46.105.100 public system.sysName.0
system.sysName.0 = bsdguru.dyndns.org
% echo $status
0
```

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FIG. 28

```
% snmpget 218.46.105.101 public system.sysName.0

Timeout: No Response from 218.46.105.101.

stderr
% echo $status
1
```

FIG. 29

```
% snmpget 218.46.105.100 wrongcommunity system.sysName.0

Error in packet
Reason: (noSuchName) There is no such variable name in this MIB.
Failed object: system.sysName.0

% echo $status
2
```

FIG. 30

```
% snmpget 218.46.105.100 public system.sysLocation.0
system.sysLocation.0 = TEST
% echo $status
0
```

FIG. 31

```
options {
  directory "/etc/namedb";
  // forward only;
  forwarders {
  127.0.0.1;
  };
  version="Hyper-Rturner-BOX";
  // query-source address * port 53;
  // dump-file "s/named_dump.db";
  };
```

FIG. 32

```
% dig @218.46.105.100 txt chaos version bind
: \langle \rangle DiG 8.3 \langle \rangle @218.46.105.100 txt chaos version bind
: (1 server found)
;; res options: init recurs defnam dnsrch
;; got answer:
:: ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6
;; flags: gr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
:: QUERY SECTION:
        version bind, type = TXT, class = CHAOS
:: ANSWER SECTION:
                        OS CHAOS TXT
                                          "Hyper-Returner-BOX"
VERSION, BIND.
:: Total query time: 76 msec
;; FROM: open. names4commerce. net to SERVER: 218. 46. 105. 100
;; WHEN: Thu Sep 26 22:37:43 2002
:: MSG SIZE sent: 30 rcvd: 73
% echo $status
0
```

FIG. 33

```
% dig @218.46.105.101 txt chaos version.bind

: <<>> DiG 8.3 <<>> @218.46.105.101 txt chaos version.bind

: (1 server found)

: res options: init recurs defnam dnsrch

:: res_nsend to server 218.46.105.101: Operation timed out

% echo $status

9
```

```
% dig @ns. korai. or. jp txt chaos version bind
: \langle \rangle DiG 8.3 \langle \rangle @ns.korai.or.jp txt chaos version.bind
; (1 server found)
;; res options: init recurs defnam dnsrch
:; got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 6
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0. ADDITIONAL: 0
:: QUERY SECTION:
        version.bind, type = TXT, class = CHAOS
:: ANSWER SECTION:
                       OS CHAOS TXT "4. 9. 7-REL"
VERSION, BIND.
:: Total query time: 2 msec
;; FROM: open. names4commerce. net to SERVER: ns. korai. or. jp 202. 217. 175. 5
:: WHEN: Thu Sep 26 22:40:57 2002
;; MSG SIZE sent: 30 rcvd: 64
% echo $status
0
```

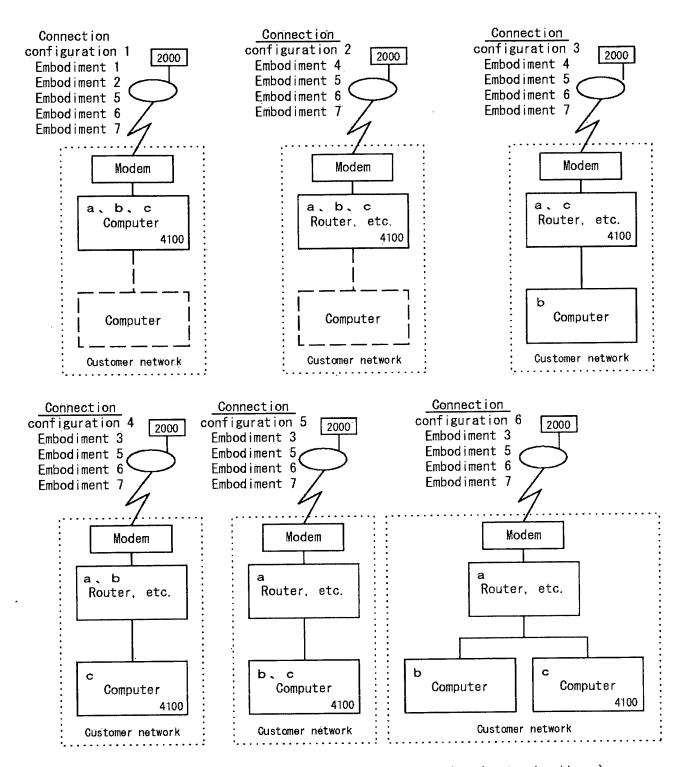
FIG. 35

```
Trying 202. 217. 175. 5...

Connected to po. korai.or.jp.

Escape character is '^]'.

220 ns. korai.or.jp ESMTP Sendmail 8.8.8/3.6W-99062802: Tue, 5 Nov 2002 02:14:35 +0900 (JST)
```



- a = Host performing dial-up (assigned a dynamically assigned network address)
- b = Host performing dynamic update to D (1000)
- c = Host having function of T (4100)

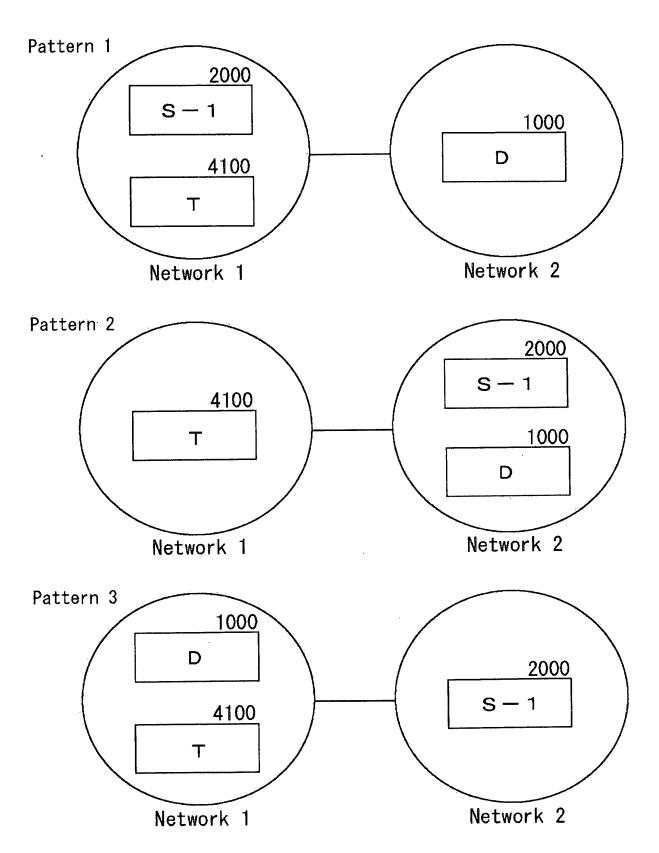
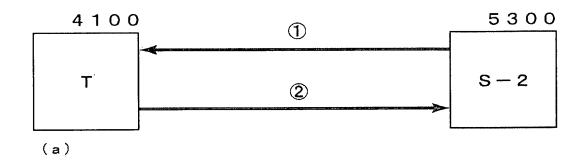


FIG. 38



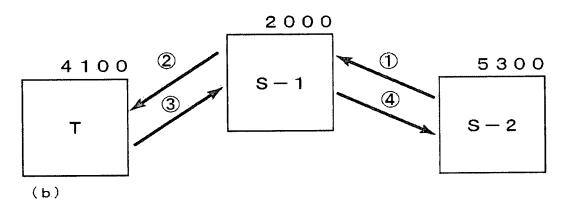


FIG. 39

/usr/sbin/nsupdate -k KEYDIR:KEYNAME << EOF || \$ERRFLG=ERROR update delete \$TARGETHOST A

E0F

FIG. 40

